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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/083,419	02/26/2002	Andrew Thomas LeCren	CE04956N/10-54	CE04956N/10-54 6795	
23400	7590 12/03/2004		EXAMI	EXAMINER	
POSZ & BETHARDS, PLC			TRAN, T	TRAN, TUAN A	
11250 ROGER BACON DRIVE SUITE 10			ART UNIT	PAPER NUMBER	
RESTON, V.	A 20190		2682	~	
			DATE MAILED: 12/03/2004	, 3	

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)				
	10/083,419	LECREN, ANDREW THOMAS				
Office Action Summary	Examiner	Art Unit				
	Tuan A Tran	2682				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.7 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONED	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 26 F	ebruary 2002.					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-21</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ⊠ Claim(s) <u>17-21</u> is/are allowed.  6) ⊠ Claim(s) <u>1-6 and 9-14</u> is/are rejected.  7) ⊠ Claim(s) <u>7,8,15 and 16</u> is/are objected to.  8) □ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examina	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) $\square$ objected to by the E	Examiner.				
Applicant may not request that any objection to the	• ,	` '				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E.	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:					

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-4 and 9-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Morikawa (5,898,829).

Regarding claims 9 and 11-12, Morikawa discloses a multi-processor based apparatus arranged and constructed to dynamically reallocate processors to provide redundant functionality (See fig. 2 and col.3 line 41 to col. 4 line 14), the apparatus comprising in combination: a first processor 10 supporting a first function (carrying out control for the controlled system) having a first priority (active); means 22 for detecting a fault in the first function; a second processor 20 supporting a second function (carrying out control for the control system) having a second priority (backup) (See fig. 2 and col. 6 line 59 to col. 7 line 25); and means for reallocating, responsive to the fault, the second processor 20 to support the first function when a predetermined relationship corresponding to the first priority and the second priority exist including the first priority exceeding the second priority and a type of major fault (failure) (See fig. 2 and col. 9 line 12 to col. 10 line 10).

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Claims 1, 3-4 are rejected for the same reasons as set forth in claims 9 and 11-12, as method.

Regarding claim 10, Morikawa discloses as cited in claim 9. Morikawa further discloses the first processor is allocated to the second function upon recovery of the first processor from the fault (See col. 10 lines 11-15).

Claim 2 is rejected for the same reasons as set forth in claim 10, as method.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 5-6 and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morikawa (5,898,829) in view of Goodwin et al. (4,654,846).

Regarding claims 13-14, Morikawa discloses as cited in claim 11. However, Morikawa does not mention that reallocating the second processor (backup) is delayed for a predetermined time sufficient to allow for a possible recovery of the first processor from the minor fault and the reallocating occurs immediately when the minor fault has repeated a predetermined number of times. Goodwin teaches a multi-processor based apparatus (See fig. 1) wherein the reallocating the second processor (backup) is delayed for a predetermined time sufficient to allow for a possible recovery of the first processor 31 from the minor fault and the reallocating occurs immediately when the

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minor fault has repeated a predetermined number of times (See fig. 1 and col. 2 lines 45-62, col. 3 lines 12-52, col. 4 lines 28-57). Since both Morikawa & Goodwin teach about the multi-processor based apparatus with redundant functionality; therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply the teachings of Goodwin in controlling the reallocation of the backup processor for the advantage of eliminating unnecessary reallocations to avoid service interruption as well as improving fault tolerance of the system.

Claims 5-6 are rejected for the same reasons as set forth in claims 13-14, as method.

## Allowable Subject Matter

3. Claims 7-8 and 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claims 15-16, Morikawa discloses as cited in claim 11. However, Morikawa does not mention that reallocating the second processor occurs when the predetermined relationship corresponds to having a multiplicity of the second processors that supports a multiplicity of the second functions satisfy a threshold number of the second processors.

Claims 7-8 are objected for the same reasons as set forth in claims 15-16.

4. Claims 17-21 are allowed.

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The following is an examiner's statement of reasons for allowance:

The closest prior art to the claimed subject matter is Berry et al. (5,953,676). Berry discloses a base station controller comprising a mobility manager for handling all base station resource assignments and a transcoder for supporting all calls, the transcoder further including: means for inter-coupling the base station and the network switch; a operations and maintenance processor (OMP) for providing control and system level functions having a first priority for the transcoder; a call processing processor (CPP) for managing transcoder resource that are assigned by the OMP to establish and handoff calls having a second priority. However, none of prior arts of record discloses means for reallocating, responsive to the detected fault in the control and system level functions, the CPP to support the control and system level functions when a predetermined relationship corresponding to the first priority and the second priority exists.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kizuka (5,796,937); Vilander et al. (6,775,542); Rozenstrauch et al. (5,530,908); Cornils (6,711,407); Klug et al. (5,226,152); Holland et al. (6,556,672); Hashemi (5,491,787).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan Tran** whose telephone number is **(703) 605-4255**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin, can be reached at (703) 308-6739.

## Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

#### or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

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Tuan Tran

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PRIMARY EXAMINER